Title (en)

Flexible general-purpose input/output system

Title (de)

Flexibles Mehrzweck-Ein/Ausgabesystem

Title (fr)

Système flexible et polyvalente d'entrée/sortie

Publication

EP 1103889 A3 20040519 (EN)

Application

EP 00125264 A 20001124

Priority

US 45088999 A 19991129

Abstract (en)

[origin: EP1103889A2] A processing device (10) provides general-purpose input/output pins (52) for use by software routines as needed. A data input register (54) has bits corresponding to each pin (52) for storing the value of the signal on the pin. A data output register (56) has bits corresponding to each pin for driving the signal on the pin (52) to a desired value. An output enable register (58) controls output buffers (62) coupled between the output register (56) and the pins (52). A plurality of mask registers (60) may be individually set to define a set a pins associated with the mask. Each of the data registers, the data input register (56), the data output register (58) and the output enable register (60) are accessed through a plurality of addresses, where the address specifies both the data register being accessed and an associated mask register (60). Logic (50) accesses the data registers in view of the state of the associated mask register (60). <IMAGE>

IPC 1-7

G06F 9/308; G06F 9/30

IPC 8 full level

G06F 15/78 (2006.01); **G06F 9/30** (2006.01); **G06F 9/308** (2006.01); **G06F 13/14** (2006.01)

CPC (source: EP KR US)

G06F 9/30018 (2013.01 - EP US); **G06F 9/30101** (2013.01 - EP US); **G06F 13/14** (2013.01 - KR)

Citation (search report)

- [A] US 5826093 A 19981020 - ASSOUAD NICOLAS C [US], et al
- [A] US 5185859 A 19930209 - GUTTAG KARL M [US], et al
- [A] ANONYMOUS: "Masking Technique for Control of an Associative Parallel Processor. June 1971.", IBM TECHNICAL DISCLOSURE BULLETIN, vol. 14, no. 1, 1 June 1971 (1971-06-01), New York, US, pages 125 - 127, XP002273590

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CN102103543A

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1103889 A2 20010530; **EP 1103889 A3 20040519**; **EP 1103889 B1 20060201**; CN 1167018 C 20040915; CN 1305133 A 20010725; DE 60025788 D1 20060413; DE 60025788 T2 20060907; JP 2001195384 A 20010719; KR 100721091 B1 20070523; KR 20010051991 A 20010625; US 6532533 B1 20030311

DOCDB simple family (application)

EP 00125264 A 20001124; CN 00135202 A 20001129; DE 60025788 T 20001124; JP 2000361291 A 20001128; KR 20000071207 A 20001128; US 45088999 A 19991129